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Adding an Element

Now, continue by transforming this **force** to **global coordinates** using a **transformation matrix** calculated in another element method. ...

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[Tn GE] is a **transformation matrix** between **global** and elemental **coordinates** which is expressed as $h \begin{bmatrix} T_n & G & E \end{bmatrix} = \begin{bmatrix} 2 & 6 & 6 & 6 & 6 & 6 & 6 & 6 & 6 & 4 & T_1 & T_2 & 0 & T_3 & 0 & T_n & 3 & 7 \end{bmatrix} \dots$

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T = **Coordinate Transformation Matrix** ... T. - 1. = T. T. v. = Element deflection vector in the **Global coordinate** system ... u = T v. f. = Element **force** ...

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a - **transformation matrix** from **global** to local **coordinates** for ... We can also identify the **transformation matrix** for the local/**global force** relationship. ...

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After obtaining the **coordinates transformation matrix**, the strip element stiffness matrix can be transformed to the **global coordinates** system to be ...

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Trusses and Transformations

where [T] is called the **transformation matrix**. Applying this to equation 1.14 ... Then we obtain the transformed stiffness matrix in the **global coordinate** ...

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To do this, let [T] be the **coordinate transformation matrix**. In addition, let and be the displacement and the external **force** vector in the **global coordinate** ...

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The external **force** acting on body i is the sum of all forces such as inertia ... in the **global**

coordinate system by multiplying the transformation matrix as ...

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hourglass modes and arise as a consequence of under-integrating the element ... where d is rate of **deformation** tensor defined as the symmetric part of the ...

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consider perturbation **hourglass stabilization** of Flanagan and Belytschko (1981). ... called a **stabilization matrix**. The **stabilization matrix** is of rank 2. ...

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